

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of:)
	:
Chiaki TERASAWA et al.) Examiner: J. M. Schwartz
	:
Application No.: 09/784,021) Group Art Unit: 2873
	:
Filed: February 16, 2001) Confirmation No.: 1607
	:
For: PROJECTION OPTICAL SYSTEM AND) February 9, 2007
PROJECTION EXPOSURE APPARATUS	:
)
U.S. Patent No. 7,075,726 B2	:
)
Issued: July 11, 2006	:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Attention: Certificate of Correction Branch

REQUEST FOR
CERTIFICATE OF CORRECTION
UNDER RULES 322 AND 323

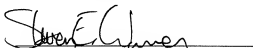
Sir:

Patentees request that a Certificate of Correction be issued by the Patent and Trademark Office due to errors which appear in the printed patent as a result of U.S. Patent and Trademark Office mistakes and mistakes of a minor nature which are not the fault of the U.S. Patent and Trademark Office.

The statutory fee of \$100.00 is being paid electronically. Any additional fee required by this paper may be charged to Deposit Account No. 06-1205.

Patentees' undersigned attorney may be reached in our Washington, D.C. Office by telephone at (202) 530-1010. All correspondence should continue to be directed to our below-listed address.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Steven E. Warner", is written over a horizontal line.

Attorney for Patentees
Steven E. Warner
Registration No. 33,326

FITZPATRICK, CELLA, HARPER & SCINTO
30 Rockefeller Plaza
New York, New York 10112-3801
Facsimile: (212) 218-2200
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CERTIFICATE OF CORRECTION

PATENT NO. : 7,075,726 B2

DATED : July 11, 2006

INVENTOR(S): Chiaki TERASAWA et al.

Page 1 of 20

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 1:

Line 12, "oil" should read -- on --.

COLUMN 2:

Line 39, "angel" should read -- angle --.

COLUMN 3:

Line 1, "imaging" should read -- imaging. --.

Line 5, "mirror" should read -- mirror. --.

Line 13, "by" should read -- by a --.

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It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 4:

Line 24, "power" should read -- power. --.

COLUMN 5:

Line 2, "minor" should read -- mirror --.

Line 26, "system" should read -- system. --.

COLUMN 6:

Line 27, "(34)" should read -- (34). --.

Line 30, "F₂ laser" should read -- F₂ excimer laser --.

Line 45, "invention" should read -- invention. --.

Line 56, "invention," should read -- invention. --.

COLUMN 7:

Line 4, "Example" should read -- Example 5 --.

Line 59, "thee" should read -- the --.

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COLUMN 8:

Line 3, "or" should read -- of --.

COLUMN 9:

Line 67, "is such as" should read -- as such is --.

COLUMN 10:

Line 49, "Gm1" should read -- GM1 --.

COLUMN 11:

Line 20, "reflected" should read -- reflected. --.

Line 59, "system," should read -- systems, --.

COLUMN 12:

Line 40, "(9)" should read -- (B) --.

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COLUMN 13:

Line 60, "mare" should read -- make -- and "simple" should read -- simple. --.

COLUMN 16:

Line 32, "mirror," should read -- mirror --.

Line 34, "correction" should read -- correction to be --.

COLUMN 19:

Line 31, "therefore" should read -- therefore. --.

COLUMN 20:

Line 27, "fluorite" should read -- fluorite. --.

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It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 21:

Line 6, "the to" should read -- to --.

Line 8, "system" should read -- system G2 provides a reduction system --.

Line 25, "NA + 0.60," should read -- NA = 0.60, --.

Line 67, "surface." should read -- surface. However, it may be a spherical surface. --.

COLUMN 22:

Line 22, "F₂ laser" should read -- F₂ excimer laser --.

COLUMN 24:

Line 14, "of" should read -- that --.

COLUMN 25:

Line 63, "lens" should read -- lens. --.

COLUMN 26:

Line 1, "mirror." should read -- mirror --.

Line 40, "the. first" should read -- the first --.

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Page 6 of 20

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 29:

Line 31, "taken" should read -- taken. --.

Line 51, "9.56 m" should read -- 9.56 mm --.

Line 67, "-3.838 -" should read -- -3.838x --.

COLUMN 30:

Line 30, "L." should read --L--.

Line 46, "lens LP." should read -- lens LF. --.

COLUMN 31:

Line 54, "lenses" should read -- lenses. --.

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It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 34:

Line 25, “

$$X = \frac{\frac{H^2}{\eta}}{1 + \left(1 - (1 + k) \cdot \left(\frac{H}{\eta}\right)^2\right)^{\frac{1}{2}}} + A \cdot H^4 + B \cdot H^6 + C \cdot H^8 +$$

$$D \cdot H^{10} + E \cdot H^{12} + F \cdot H^{14} + G \cdot H^{16} + \dots$$

should read as follows:

$$- - X = \frac{\frac{H^2}{\eta}}{\left(1 + (1 + k) \cdot \left(\frac{H}{\eta}\right)^2\right)^{\frac{1}{2}}} + A \cdot H^4 + B \cdot H^6 + C \cdot H^8 +$$

$$D \cdot H^{10} + E \cdot H^{12} + F \cdot H^{14} + G \cdot H^{16} + \dots - - .$$

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It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 35:

In "TABLE 1 - continued," the second-listed entry under column "C," "-3.675872e-016" should read -- -3.675672e-016 --.

COLUMN 36:

In "TABLE 2 - continued," the fifth-listed entry under column "F," "4.650685e-031" should read -- 4.650686e-031 --.

COLUMN 37:

In "TABLE 3 - continued," the twelfth-listed entry under column "K," "-1.401348e-000" should read -- -1.401348e+000 --.

In "TABLE 3 - continued," the fifth-listed entry under column "F," "-6.847638e-027" should read -- -6.847636e-027 --.

COLUMN 38:

In "TABLE 4 - continued," the seventh-listed entry under column "B," "-4.3401650e-014" should read -- -4.340165e-014 --.

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It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 39:

In "TABLE 5 - continued," the sixth-listed entry under column "B," "-1.481745e-011" should read -- -1.481745e-011 -- and the seventh-listed "1.6768743-011" should read -- 1.676874e-011 --.

In "TABLE 5 - continued," the sixth-listed entry under column "C," "-9.65666e-016" should read -- -9.656666e-016 --.

In "TABLE 6," the first-listed entry under column "ri," "182.569" should read -- 182.669 -- and the fourth-listed entry "859.854" should read -- 659.854 --.

COLUMN 40:

In "TABLE 6 - continued," the ninth-listed entry under column "K," "0.000000.+000" should read -- 0.000000e+000 --.

In "TABLE 6 - continued," under column "A," the eleventh-listed entry "2.662851e-007" should read -- 2.662651e-007 -- and the twelfth-listed entry "3.826198e-010" should read -- 3.826198e-007 --.

In "TABLE 6 - continued," under column "B," the sixth-listed entry "-9.750539e-012" should read -- -9.750639e-012 -- and the eleventh-listed entry "-3.356811e-014" should read -- -3.356811e-010 --.

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COLUMN 40 (continued):

In "TABLE 6 - continued," the eleventh-listed entry under column "C," "5.695043e-014" should read -- 5.994494e-014 --.

In "TABLE 6 - continued," the eighth-listed entry under column "E," "3.589421e-023" should read -- 3.689421e-023 --.

In "TABLE 7," the seventeenth-listed entry under column "ri," "-554.680" should read -- -564.680 --.

COLUMN 41:

In "TABLE 7 - continued," the sixth-listed entry under column "A," "1.980283e-007" should read -- 1.980383e-007 --.

In "TABLE 7 - continued," the eighth-listed entry under column "E," "3.574846e-026" should read -- 3.674846e-026 --.

In "TABLE 7 - continued," the first-listed entry under column "i," "1" should read -- 2 --.

In "TABLE 8," "the twenty-fourth-listed entry under column "di," "20.841" should read --20.641 --.

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Page 11 of 20

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COLUMN 42:

In "TABLE 8 - continued," the first-listed entry under column "A," "1.670153e-008" should read -- 1.670163e-008 --.

In "TABLE 8 - continued," the twelfth-listed entry under column "C," "1.073083e-015" should read -- 1.073083e-016 --.

In "TABLE 8 - continued," the fourth-listed entry under column "F," "2.691068e-030" should read -- 2.691088e-030 --.

In "TABLE 9," under column "ri," the fifth-listed entry "-126.589" should read -- -126.569 -- and the ninth-listed entry "-126.559" should read -- -126.569 --.

In "TABLE 9," under column "di," the tenth-listed document "-24.549" should read -- -34.549 --.

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It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 43:

In "TABLE 9 - continued," the seventh-listed entry under the second column under "Example 9" "276.804" should read -- 278.804 --.

In "TABLE 9 - continued," under column "A," the fifteenth-listed entry "-1.372555e-008" should read -- -1.372556e-008 --.

In "TABLE 9 - continued," under column "B," the ninth-listed entry "-1.238808e-013" should read -- -3.238808e-013 --, the tenth-listed entry "-5.145083e-013" should read -- -5.145063e-013 --, and the twelfth-listed entry "-1.933833e-011" should read -- -1.933933e-011.

In "TABLE 9 - continued," under column "C," the twelfth-listed entry, "-2.138981e-015" should read -- -2.138991e-015 --, and the sixteenth-listed entry, "-5.462196e-016" should read -- -6.462196e-016 --.

In "TABLE 9 - continued," under column "E," the eleventh-listed entry, "6.958981e-024" should read --6.968981e-024--, and the thirteenth-listed entry, "-3.315785e-24" should read -- -3.316785e-24--.

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COLUMN 44:

In "TABLE 10," under column "ri," the eleventh-listed entry "-775.368" should read -- -775.358 --, the eighteenth-listed entry "1301.157" should read -- 1301.137 --, and the thirty-second listed entry "53.753" should read -- 63.753 --.

In "TABLE 10," under column "di," the fourth-listed entry "319.854" should read -- 319.054 --.

In "TABLE 10," under column "B," the fourteenth-listed entry "-1.607152e-011" should read -- -3.607152e-011 --.

In "TABLE 10," under column "C," the seventh-listed entry "-2.932285e-017" should read -- -2.932265e-017 --.

In "TABLE 10," under column "D," the first-listed entry "-1.994882e-020" should read -- -1.994862e-020.

In "TABLE 10," under column "E," the seventh-listed entry "-1.865907e-025" should read -- -1.866907e-025 --.

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COLUMN 45:

In "TABLE 10 - continued," under column "F," the fifth-listed entry "-3.369351e-027" should read -- -3.369361e-027 --, and the eleventh-listed entry "-1.372776e-028" should read -- -1.372775e-028 --.

In TABLE 11, at line 34 in the column headings "Obj-distance=50.982" should read -- Obj-distance=50.962 --.

In "TABLE 11," under column "ri," the fourth-listed entry "-11245.509" should read -- -11246.509 --, the twenty-first listed entry "-186.358" should read -- -186.356 --, and the thirtieth-listed entry "58.314" should read -- 68.314 --.

In "TABLE 11," under column "di," the twelfth-listed entry "338.890" should read -- 398.890 --.

In "TABLE 11," under column "B," the second-listed entry "-2.164592e-013" should read -- -2.154592e-013 --, the third-listed entry "1.103232e-013" should read -- 1.103292e-013 --, and the fourth-listed entry "-2.154562e-013" should read -- -2.154592e-013 --.

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COLUMN 46::

In "TABLE 11 - continued," in the first section, the third column from the left, the second-listed entry "-3.452255e-010" should read -- -3.453255e-010 --, the seventh-listed entry "2.891714e-008" should read --2.691714e-008 --, the eighth-listed entry "-2.045926e-007" should read -- -2.046926e-007 --, and the eleventh-listed entry "-2.143637e-008" should read -- -2.143697e-008 --.

In "TABLE 11 - continued," in the first section, the fourth column from the left, the third-listed entry "6.897513e-013" should read -- 6.897518e-013 -- and the eight-listed entry "8.683717e-012" should read -- 8.688717e-012.

In "TABLE 11 - continued," under column "C," the fifth-listed entry "-2.704670e-016" should read -- -2.706670e-016 --, the sixth-listed entry "-1.705759e-018" should read -- -1.705759e-016 --, the seventh-listed entry "-2.101670e-016" should read -- -2.706670e-016 --, the eighth-listed entry "-1.617801e-016" should read -- -1.817801e-017 --, the tenth-listed entry "-2.556752e-017" should read -- -2.566752e-017 --; the thirteenth-listed entry "-3.932959e-016" should read -- -3.912959e-016 -- and the fifteenth-listed entry "-5.094587e-016" should read -- -5.094587e-015 --.

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COLUMN 46 (continued):

In "TABLE 11 - continued," under column "D," the third-listed entry "-1.720228e-021" should read -- -1.720226e-021 --, the eighth-listed entry "5.715537e-022" should read -- 5.715837e-022 -- and the twelfth-listed entry "-8.554169e-020" should read -- -8.554669e-020 --.

In "TABLE 11 - continued," under column "i," the fourteenth-listed entry "25" should read -- 26 --.

In "TABLE 11 - continued," under column "F," the fourth-listed entry "8.769913e-029" should read -- 8.769913e-028 -- and the fifth-listed entry "2.476219e-029" should read -- 2.475219e-029 --.

COLUMN 47:

In "TABLE 12 - continued," in the first section, the second column from the left, the fifth-listed entry "655.307" should read -- 666.307 --.

In "TABLE 12 - continued," under column "A," the ninth-listed entry "8.819915e-009" should read -- 8.819915e-010 --.

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COLUMN 47 (continued):

In "TABLE 12 - continued," under column "C," the fourth-listed entry "-1.918570e-017" should read -- 1.918570e-017 --.

In "TABLE 12 - continued," under column "D," the third-listed entry "-5.098034e-021" should read -- -6.098034e-021 -- and the twelfth-listed entry "-5.090344e-020" should read -- -6.098034e-020--.

In "TABLE 12 - continued," under column "i," the fourteenth-listed entry "25" should read -- 26 --.

COLUMN 49:

In "TABLE 14 - continued," under the section entitled "EXAMPLE 14," the third column from the left, the first-listed entry "28.713" should read -- 28.713 1.56000 --.

In "TABLE 15," under column "ri," the fourteenth-listed entry "-214.353" should read -- -214.544 -- and the fifteenth-listed entry "0.00(stop)" should read -- 0.0(stop) --.

COLUMN 50:

In "TABLE 15 - continued," under column "C," the first-listed entry "--2.192632e-016" should read -- -2.192632e-016--.

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COLUMN 51:

In "TABLE 16 - continued," under column "A," the eighth-listed entry "1.2526240e-008" should read -- 1.256240e-008 -- and the fourteenth-listed entry "-1.1152710e-007" should read -- -1.152710e-007 --.

COLUMN 52:

In "TABLE 17," under column "B," the sixth-listed entry "6.122885e-015" should read -- 6.122886e-015 --.

In "TABLE 17," under column "C," the eleventh-listed entry "-1.110556e-015" should read -- -1.110656e-015 --.

In "TABLE 17," under column "D," the first-listed entry "-7.1748408e-022" should read -- -7.178408e-022 --.

COLUMN 53:

In "TABLE 18," under column "ri," the seventeenth-listed entry "0.00(stop)" should read -- 0.0(stop) --.

In "TABLE 18," under column "B," the first-listed entry "-2.618537e-012" should read -- -2.618357e-012 --.

In "TABLE 18," under column "D," the first-listed entry "5.211535e-020" should read -- -5.211535e-020 --.

In "TABLE 18," under column "E," the first-listed entry "3.7766459e-024" should read -- -3.766459e-024 --.

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COLUMN 54:

In "TABLE 18 - continued," under column "ri," the sixteenth-listed entry "-202.158" should read -- -202.153 --.

In "TABLE 18 - continued," under column "A," the twelfth-listed entry "-5.9830256e-009" should read -- -5.983025e-009 --.

COLUMN 55:

In "TABLE 19 - continued," under "EXAMPLE 19," in the third column from the left, the third-listed entry "-2.143637e-008" should read -- -9.452418e-008 --.

In "TABLE 19 - continued," under column "C," the fifth-listed entry "2.934676e-014" should read -- 2.934576e-014 --.

In "TABLE 19 - continued," under column "D," the third-listed entry "-6.7771024e-018" should read -- -6.771024e-018 -- and the thirteenth-listed entry "-1.4118320e-019" should read -- 1.418320e-019 --.

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COLUMN 56:

In "TABLE 20 - continued," under column "A," the second-listed entry "-1.2825216e-008" and should read -- -1.285216e-008 -- and the fourth-listed entry "-1.2825216e-008" should read -- 1.285216e-008 --.

In "TABLE 20 - continued," under column "C," the fifth-listed entry "2.083756e-018" should read -- 2.083765e-018 -- and the thirteenth-listed entry "-2.7589843e-015" should read -- -2.759843e-015 --.

COLUMN 60:

Line 31, "-1.2<1/BGM1<0.2." should read --1.2<1/BGM1<-0.2--.

COLUMN 62:

Line 15, "first" should read --first field--.

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